#### **Description:**

The long-range goal of the state leadership and technical assistance staff is to achieve and maintain a high quality and well-coordinated statewide system of professional-technical education programs that will provide Idaho's youth and adults with technical skills, knowledge, and attitudes necessary for successful performance in a globally competitive workplace. Ultimate performance measures will be tested in Programs 02, 03, and 04.

#### **Major Functions and Targeted Performance Standard(s) for Each Function:**

- 1. Provide local education agencies with technical assistance in planning, developing, maintaining, and improving professional-technical education.
  - A. The number and quality of the secondary programs will continue to meet the needs of the 109 school districts.

	Actual	Results	
2000	2001	2002	2003
720	752	746	736
	Projected	d Results	
2004	2005	2006	2007
784	775	775	775

B. The number and quality of postsecondary programs will continue to meet the needs of the state technical colleges.

	Actual	Results	
2000	2001	2002	2003
151	148	151	150
	Projecte	d Results	
2004	2005	2006	2007
149	149	150	150

C. Support service projects will be initiated and maintained for Tech Prep, curriculum development, and professional development.

	Actual I	Results	
2000	2001	2002	2003
189	169	199	248
	Projected	l Results	
2004	2005	2006	2007
265	115	110	110

- 2. Plan and conduct activities to promote quality improvement of professional-technical education.
  - A. Conduct reviews of state funded and federally funded professional-technical programs. Formal secondary program reviews were reinstated in FY2002

	Actual	Results	
2000	2001	2002	2003
n/a	n/a	266	431
	Projected	l Results	
2004	2005	2006	2007
460	485	500	520

# Educ - Professional-Technical Educ Administration & Supervision

- 3. Participate actively in coordinating the development and implementation of new effective, cost-efficient professional-technical models of education. Administer programs of professional-technical education in accordance with state and federal legislation.
  - A. New secondary programs will continue to be developed to meet demand.

	Actual	Results	
2000	2001	2002	2003
65	48	31	28
	Projecte	d Results	
2004	2005	2006	2007
48	20	20	20

B. Existing secondary programs will continue to be expanded to meet increased demand. (Net increase)

	Actual	Results	
2000	2001	2002	2003
38.0	42.4	4.8	10.0
	Projected	l Results	
2004	2005	2006	2007
42.2	20.0	20.0	20.0

C. Secondary and Postsecondary Carl Perkins Projects will be initiated and facilitated to serve the needs of Idaho students including non-traditional students and displaced home makers.

	Actual	Results	
2000	2001	2002	2003
210	223	224	229
	Projecte	d Results	
2004	2005	2006	2007
229	229	229	229

- 4. Process, approve, and monitor local program plans and grants.
  - A. Secondary program plans and applications will be initiated and maintained to facilitate the use of state and federal funds.

	Actual	Results	
2000	2001	2002	2003
200	201	204	204
	Projecte	d Results	
2004	2005	2006	2007
204	204	204	204

- 5. Ensure that teachers have state-of-the-art technological and pedagogy skills.
  - A. Continue to review requests for new certifications and recertifications.

	Actual	Results	
2000	2001	2002	2003
235	367	364	386
	Projected	d Results	
2004	2005	2006	2007
400	410	420	430

B. Plan, coordinate, and/or facilitate teacher preserves and in-service workshops.

	Actual R	Results	
2000	2001	2002	2003
169	332	340	348
	Projected	Results	
2004	2005	2006	2007
350	350	350	350

C. Facilitate in-service to at least 2200 teachers per year.

	Actual F	Results	
2000	2001	2002	2003
1,508	2,878	2,718	2,636
	Projected	Results	
2004	2005	2006	2007
2,200	2,200	2,200	2,200

- 6. Provide student organization leadership development.
  - A. Student organization membership will increase to meet the need (FFA, PAS, FCCLA, DECA, Delta Epsilon Chi, Skills USA-VICA, BPA, ITSA and HOSA.)

	Actual	Results	
2000	2001	2002	2003
8,155	8,585	8,897	12,472
	Projected	d Results	
2004	2005	2006	2007
12,500	12,500	12,600	12,650

B. Leadership activities will be provided to meet the need.

	Actual	Results	
2000	2001	2002	2003
44	50	40	46
	Projecte	d Results	
2004	2005	2006	2007
48	50	53	55

C. The percent of student participating in leadership activities in relation to total professional-technical enrollment will be 10% or greater.

	Actual	Results	
2000	2001	2002	2003
10.67%	10.86%	11.04%	15.40%
	Projecte	d Results	ı
2004	2005	2006	2007
10%	10%	10%	10%

# Educ - Professional-Technical Educ Administration & Supervision

- 7. Actively promote efficient coordination of professional-technical education with the other elements of Idaho's workforce development efforts.
  - A. The State Division will provide appropriate representation and staff support to the relevant workforcerelated committees and task forces, including the Workforce Training Network, the Workforce Development Council, and other partners. Measure was changed to reflect actual count of workforcerelated meetings and task force involvement by Division personnel. Actual count prior to FY 2003 not available.

Actual Results						
2000	2001	2002	2003			
n/a	n/a	n/a	764			
	Projecte	d Results				
2004	2005	2006	2007			
768	770	775	780			

#### **Program Results and Effect:**

Program 01 provides the leadership and technical support necessary for the state system of professional-technical education to operate effectively. The State Board has broad system categories in quality, access, relevance and efficiency. In keeping with those areas of emphasis, the Division has set goals and performance outcomes which will result in the following: initiatives that will continuously improve the quality of professional-technical education; initiatives that will increase the availability of high demand training programs/options; and, initiatives to ensure that instruction is rigorous and relevant to workforce needs.

Program 01 staff focus the system on accomplishing these goals by: developing new programs and helping maintain existing ones; coordinating and facilitating the development of new curricula; working with Idaho business and industry to determine needs and provide program support; sponsoring, organizing, and conducting teacher in service; maintaining federal funds related to technical training; supervising statewide extracurricular student organizations; and representing the professional-technical system to the State Board, the legislature and the general public. Over the past five years, the System has experienced 14.3% growth in secondary programs, along with 17.4% growth in enrollment. This compares with a .34% decrease in high school enrollment. This growth has occurred because of new types of programs developed by the Division as well as new curricula and program structure; for example, there were 364 Tech Prep articulation agreements linking secondary and postsecondary programs in place this year, and eleven professional-technical schools/academies offered 100 high-level industry-endorsed programs with enrollment of 3,835 students.

Customized training has increased substantially over the past 10 years, providing specialized training to Idaho businesses. The numbers for FY2003 have risen slightly after an economic slow down in FY2002. Postsecondary programs have undergone significant modifications with over 180 new programs, options, certificates and/or degrees.

The Division has developed a strategic plan with a number of shorter and intermediate performance goals that address the listed purposes. The measures reflected on this document reflect longer term, system measures that are more stable over time. The ultimate measures, however, are found in Programs 2, 3 and 4 where the results of the system office support are realized.

#### **Description:**

Program 02 provides a continuum of professional-technical educational opportunities for all students beginning with career exploration in the middle school and ending with upgrade and customized training for Idaho's workforce. The long-range goal is to provide Idaho's youth and adults with technical skills, knowledge, and attitudes necessary for successful performance in a highly effective workplace. Professional-Technical Schools were created by legislative action, HB 510, in 1998. Measures 2. A., B., & C. have been added to reflect the quality of Professional-Technical Schools and their impact on students.

#### **Major Functions and Targeted Performance Standard(s) for Each Function:**

- 1. To provide quality high school professional-technical programs that are realistic in terms of employment opportunities and consistent with student interests, aptitudes, and abilities.
  - A. The enrollment of public school students of high school age (grades 9-12) in professional-technical education will meet demands. NOTE: Prof-tech enrollments are unduplicated within programs, but may be duplicated among the different programs.

Actual Results				
2000	2001	2002	2003	
74,011	75,672	76,201	76,758	
	Projecte	d Results		
2004	2005	2006	2007	
77,526	78,301	79,084	79,875	

B. Enrollments in Tech Prep will increase by 10% each year.

	Actual	Results	
2000	2001	2002	2003
2,334	3,211	4,434	6,830
	Projecte	d Results	
2004	2005	2006	2007
7,513	8,264	9,090	10,000

C. The percentage of professional-technical students reaching the standard for occupational competency attainment will increase each year. New federal legislation changed the measure from percentage of schools to percentage of students beginning with FY 2000.

	Actual	Results	
2000	2001	2002	2003
88.3%	91.6%	88.9%	89.4%
	Projected	l Results	
2004	2005	2006	2007
90.0%	90.5%	90.9%	91.3%

D. The Positive Placement rate for students completing secondary professional-technical programs will be 92% or greater. NOTE: Since 4% choose not to be in the labor force (i.e. full-time parents), 93% represents only 3% unemployment.

	Actual	Results	
2000	2001	2002	2003
93%	92%	93%	92%
	Projecte	d Results	
2004	2005	2006	2007
92%	92%	92%	92%

### Educ - Professional-Technical Educ General Programs

- 2. To Provide Profession-Technical Schools with high-quality programs that are too expensive to offer in the normal comprehensive high school.
  - A. Enrollment in Professional-Technical Schools with increase

	Actual Results					
2000	2001	2002	2003			
1,771	2,435	3,251	3,835			
	Projecte	d Results				
2004	2005	2006	2007			
4,861	5,600	5,750	5,800			

B. The percentage of Professional-Technical School graduates reaching the standard for occupational competency will be 90% or greater.

	Actual	Results	
2000	2001	2002	2003
n/a	96.1%	96.8%	84.6%
	Projected	d Results	
2004	2005	2006	2007
90%	90%	90%	90%

C. The Positive Placement rate for Professional-Technical School students will be 92% or greater.

	Actual Results					
2000	2001	2002	2003			
n/a	n/a	n/a	96.2%			
	Projected	l Results				
2004	2005	2006	2007			
92%	92%	92%	92%			

- 3. To provide professional-technical programs and/or services to special population students who need additional services to succeed in professional-technical education.
  - A. The percent of special populations students enrolled in professional technical (Secondary) will be maintained at 28% or higher

	Actual I	Results	
2000	2001	2002	2003
26.9%	28.6%	32.5%	34.3%
	Projected	l Results	
2004	2005	2006	2007
28.0%	28.0%	28.0%	28.0%

- 4. To increase successful participation of minority students in professional-technical programs.
  - A. The percent of minority students enrolled in secondary programs will be maintained at 9.5% or higher.

	Actual Results					
2000	2001	2002	2003			
11.4%	12.2%	13.1%	13.9%			
	Projected	d Results				
2004	2005	2006	2007			
9.5%	9.5%	9.5%	9.5%			

B. The number of minority students enrolled in secondary programs will increase as the population grows.

	Actual	Results	
2000	2001	2002	2003
8,400	9,245	10,011	10,665
	Projecte	d Results	
2004	2005	2006	2007
11,036	11,588	12,167	12,400

C. The percent of minority students enrolled in postsecondary programs will be maintained at 7.5% or higher.

	Actual Results				
2000	2001	2002	2003		
8.2%	9.7%	10.3%	9.7%		
·	Projected	Results			
2004	2005	2006	2007		
7.5%	7.5%	7.5%	7.5%		

D. The number of minority students enrolled in postsecondary programs will increase as the population grows.

	Actual	Results	
2000	2001	2002	2003
532	714	835	807
	Projecte	d Results	
2004	2005	2006	2007
860	875	895	910

E. Teen Parenting programs and services will be maintained to cover the six regions of the state.

	Actual I	Results	
2000	2001	2002	2003
11	11	11	11
	Projected	Results	
2004	2005	2006	2007
11	11	11	11

- 5. To provide preservice and in-service programs that will assure an adequate supply of professional-technical teachers (including minority teachers) with state-of-the-art technological and pedagogy skills.
  - A. The number of students enrolled in professional-technical teacher education will be sufficient to meet the demand.

	Actual	Results	
2000	2001	2002	2003
560	744	825	897
	Projecte	d Results	
2004	2005	2006	2007
920	950	950	950

B. In-service opportunities will be provided for at least 2,500 professional-technical instructors each year.

	Actual	Results	
2000	2001	2002	2003
6,840	6,825	6,826	908
	Projecte	d Results	
2004	2005	2006	2007
2,500	2,500	2,500	2,500

### Educ - Professional-Technical Educ General Programs

C. The percent of minority teachers teaching professional-technical education will increase to the incidence in the population.

	Actual	Results	
2000	2001	2002	2003
2.1%	1.7%	1.5%	1.7%
	Projected	d Results	
2004	2005	2006	2007
1.9%	2.1%	2.2%	2.3%

- 6. To provide for development and research that will assist in maintaining current and relevant programs of professional-technical education.
  - A. A minimum of 15 curricula will be revised each year and will meet industry standards. (Note: In FY03 the Division invested \$185,000 in a statewide IPSI Initiative which impacted all program curricula and cross walked the Idaho Achievement Standards with PTE curriculum.

	Actual	Results	
2000	2001	2002	2003
31	14	25	4
	Projected	d Results	
2004	2005	2006	2007
15	15	15	15

- To provide professional-technical short-term classes in upgrading and retraining for individuals employed or seeking a new occupation, customized training for business/industry, and related instruction for apprentices.
  - A. The percent of workforce served in adult professional-technical education will be 6.5% or higher.

	Actual	Results	
2000	2001	2002	2003
7.3%	6.6%	4.7%	4.9%
·	Projecte	d Results	
2004	2005	2006	2007
6.5%	6.5%	6.5%	6.5%

B. The number of students in short-term upgrade and customized training will reflect the demand for training each year. (Headcount) \*\*-Headcount increases in FY 2000 and FY 2001 due to change in reporting additional count from industry upgrades which does not occur on a yearly basis. \*\*- During slow economic times, companies and individuals do not use available funds for short-term upgrade training. More interest is in making longer term investments that have a stabilizing effect or provide for certificates and/or degrees that support career changes.

	Actual	Results	
2000	2001	2002	2003
42,203*	39,388*	27,933*	28,926
	Projecte	d Results	
2004	2005	2006	2007
29,215	29,507	29,802	30,100

C. The number of students in short-term upgrade and customized training will reflect the demand for training each year (FTE)

	Actual	Results	
2000	2001	2002	2003
1,030	1,042	848	1,162
· ·	Projected	d Results	
2004	2005	2006	2007
1,174	1,186	1,198	1,210

D. The number of professional-technical short-term classes will reflect the demand for training.

	Actual I	Results	
2000	2001	2002	2003
2,750	2,565	2,233	2,248
	Projected	Results	
2004	2005	2006	2007
2,270	2,293	2,316	2,339

- 8. To plan, administer, and deliver uniform, comprehensive statewide fire and emergency services (Fire, HazMat, Anti-Terrorism) training programs through the most efficient use of the resources available, in order to assist in meeting the training of fire service personnel, first responders and protection entities, so that lives and property may be saved and protected.
  - A. The number of students served in Fire Services Training classes will reflect the demand for training each year. Note: Anti-Terrorism enrollment are included in the Fire Services Training number for FY 2000, but are reported separately beginning with FY 2001. (See 8E and F below)

	Actual	Results	
2000	2001	2002	2003
4,094	3,954	3,084	3,069
	Projecte	d Results	
2004	2005	2006	2007
3,208	3,273	3,338	3,405

B. The number of Fire Services Training classes will meet the demand for training each year.

	Actual Results					
2000	2001	2002	2003			
218	227	179	161			
	Projected	d Results				
2004	2005	2006	2007			
186	190	194	198			

C. The number of students served in Hazardous materials training classes will reflect the demand for training each year.

	Actual Results				
2000	2001	2002	2003		
1,621	1,546	1,405	1,463		
	Projected	d Results			
2004	2005	2006	2007		
1,465	1,468	1,471	1,475		

D. The number of Hazardous Materials Training classes will meet the demand for training each year.

	Actual I	Results	
2000	2001	2002	2003
121	103	91	95
	Projected	l Results	
2004	2005	2006	2007
96	96	98	98

## Educ - Professional-Technical Educ General Programs

E. The number of students served in anti-terrorism training classes will reflect the demand for training each year. Note: The Anti-Terrorism grant was not renewed for fiscal years 05-07.

	Actual R	lesults	
2000	2001	2002	2003
n/a	88	178	265
	Projected	Results	
2004	2005	2006	2007
185	0	0	0

F. The number of anti-terrorism training classes will meet the demand for training each year. Note: the Anti-Terrorism grant was not renewed for fiscal years 05-07

	Actual	Results	
2000	2001	2002	2003
n/a	4	12	14
	Projected	d Results	
2004	2005	2006	2007
15	0	0	0

#### **Program Results and Effect:**

The result of program 02 is a continuum of professional-technical educational opportunities for all students that begin with career exploration at the middle school level and continue through basic entry-level training at the secondary level. It includes upgrade training and apprenticeship training to enhance skills of the incumbent workforce and customized training to meet the needs of employers. All professional-technical educational programs are based on the needs of Idaho employers and, thus, the employment opportunities for students.

Program 02 also results in teachers who possess the necessary skills to provide effective professional-technical education as well as updated curricula that meet industry standards.

Finally, the planning, administration and delivery of uniform, comprehensive training for fire fighters, hazardous materials personnel, and anti-terrorism training protects the lives and property of Idaho citizens.

#### **Description:**

The long-range goal of the postsecondary program is to provide postsecondary students with the specialized skills and technical knowledge needed for employment in recognized occupations that require less than a baccalaureate degree and to provide persons already in the workforce with skills to assist them in maintaining and/or advancing in their chosen occupation. (Performance indicators for the latter are listed under Program 02.)

#### **Major Functions and Targeted Performance Standard(s) for Each Function:**

- 1. Increase professional-technical education opportunities at the postsecondary level.
  - A. The percent of postsecondary students served in professional-technical education will be 9.5% or more.

	Actual Results				
2000	2001	2002	2003		
9.7%	9.4%	10.0%	9.8%		
	Projected	l Results			
2004	2005	2006	2007		
9.5%	9.5%	9.5%	9.5%		

B. The number of postsecondary students (Headcount) enrolled in programs funded through general account sources will increase each year until the demand is satisfied.

	Actual Results				
2000	2001	2002	2003		
6,383	7,227	7,959	8,156		
	Projecte	d Results			
2004	2005	2006	2007		
8,175	8,200	8,220	8,250		

C. The number of postsecondary Full Time Equivalent (FTE) students enrolled in programs funded through general account sources will increase each year until demand is satisfied.

	Actual Results				
2000	2001	2002	2003		
3,800	3,746	4,092	4,358		
	Projected	l Results			
2004	2005	2006	2007		
4,365	4,380	4,400	4,410		

D. Students will be enrolled in technical training opportunities funded through non-general account sources. (Headcount) . \*Due to the fact that three programs funded through non-general account sources were discontinued in FY 2001, fiscal years 2001-2007 show lower numbers than previously reported.

	Actual	Results	
2000	2001	2002	2003
264	148	141	137
	Projecte	d Results	
2004	2005	2006	2007
140	140	140	140

# Educ - Professional-Technical Educ Post Secondary

## E. Students will be enrolled in technical training opportunities funded through non-general account sources. (FTE)

	Actual	Results	
2000	2001	2002	2003
150	93	88	99.5
	Projected	d Results	
2004	2005	2006	2007
99	99	99	99

- 2. Expand quality professional-technical education for secondary students and improve the articulation of secondary and postsecondary professional-technical education.
  - A. The number of Tech Prep students enrolled in postsecondary programs will increase each year.

Actual Results				
2000	2001	2002	2003	
253	299	292	371	
	Projected	d Results		
2004	2005	2006	2007	
380	386	392	400	

B. The number of high school students attending a postsecondary institution as part of their secondary program will increase to meet demand. (Headcount)

	Actual	Results	
2000	2001	2002	2003
131	265	376	566
	Projected	d Results	
2004	2005	2006	2007
570	575	580	590

- 3. Prepare all graduates of programs funded through general account sources for jobs consistent with their interests and aptitudes.
  - A. The average percentage rate of completers who obtained training-related employment will be 75% or higher.

	Actual	Results	
2000	2001	2002	2003
81.1%	76.4%	68.0%	60.0%
	Projecte	d Results	<u> </u>
2004	2005	2006	2007
75.0%	75.0%	75.0%	75.0%

B. The average percentage rate of completers who obtained a training-related job, were in the military, or are pursuing additional education will be 80% or higher.

	Actual	Results	
2000	2001	2002	2003
90.0%	90.3%	87.4%	85.9%
	Projecte	d Results	
2004	2005	2006	2007
80.0%	80.0%	80.0%	80.0%

C. The average percentage rate of completers who are employed, in the military, or are continuing education will be 90% or higher.

Actual Results				
2000	2001	2002	2003	
95.4%	95.6%	94.1%	94.5%	
	Projecte	d Results		
2004	2005	2006	2007	
90.0%	90.0%	90.0%	9.0%	

#### **Program Results and Effect:**

Program 03 results in students with advanced technical education requiring less than a baccalaureate degree. The effect of this program is to provide a critical component of the educational continuum in Idaho to prepare the 70% of the students who need quality postsecondary education, but will not need nor receive a baccalaureate degree. This program also recognizes the role of the technical college system in serving and articulating with secondary students as well as articulating with further education. Both of these roles are addressed in the performance measures.

### Educ - Professional-Technical Educ Unprepared Adults

#### **Description:**

The mission of the Idaho Displaced Homemaker Program is to help displaced homemakers and single parents to become personally and economically self-sufficient. The long range goal is to provide unprepared/under prepared adults, including displaced homemakers, single parents, and other nontraditional adult students, with skills necessary to be successful in a globally competitive workplace.

#### **Major Functions and Targeted Performance Standard(s) for Each Function:**

- Provide professional-technical programs and/or remedial and developmental services to students who
  need workplace literacy instruction for employment or to succeed in regular professional-technical
  education programs.
  - A. The remedial and developmental services offered by the six postsecondary professional-technical institutions will be expanded to meet demand.

	Actual	Results	
2000	2001	2002	2003
3,352	2,593	2,559	2,354
·	Projecte	d Results	
2004	2005	2006	2007
2,400	2,500	2.550	2,600

B. The percent of special population students enrolled in the technical colleges will be 28% or higher.

	Actual	Results	
2000	2001	2002	2003
36.6%	38.0%	40.3%	42.8%
	Projected	l Results	
2004	2005	2006	2007
28.0%	28.0%	28.0%	28.0%

C. The number of individuals (VFTE) in the correctional system served by professional-technical training will increase by 5% each year. \*Funding was reduced by nearly 50% in FY 2000.

	Actual	Results	
2000	2001	2002	2003
26*	44	70	61
	Projecte	d Results	
2004	2005	2006	2007
64	67	70	73

- 2. Increase successful participation of unprepared/underprepared adults in professional-technical programs and the workplace.
  - A. The number of displaced homemakers served by the Centers for New Directions who enter postsecondary professional-technical training will be a minimum of 700. \*Lower results and projections are due to a significant drop in funding beginning in FY 2000.

	Actual	Results	
2000	2001	2002	2003
331*	483	760	800
	Projecte	d Results	
2004	2005	2006	2007
700	700	700	700

B. The number of displaced homemakers served by the Centers for New Directions who enter the labor market will be a minimum of 600.

	Actual	Results	
2000	2001	2002	2003
309*	420	629	460
	Projected	l Results	
2004	2005	2006	2007
600	600	600	600

- 3. Operate a Center for New Directions (displaced homemaker center) through the postsecondary technical college system, reach out into rural communities to locate and serve single parents/displaced homemakers who cannot come to the centers, and help the displaced homemakers and single pregnant women overcome personal and economic barriers to education and employment.
  - A. The Centers will serve a minimum of 2,000 participants per year.

	Actual F	Results	
2000	2001	2002	2003
1,026*	1,737	1,994	1,831
	Projected	Results	
2004	2005	2006	2007
2,000	2,000	2,000	2,000

#### **Program Results and Effect:**

Idaho's economy is becoming more reliant on new technologies, and higher levels of literacy are required in the workplace. Thus, increasing numbers of adults need remedial or developmental assistance in reading, writing, arithmetic, communications, problem solving, and processing information. Approximately 31% or more than 301,000 of the 970,000 adults who are 16 and over have literacy skills that are not adequate. This means that of Idaho's 795,000 citizens eligible for the workforce, about 246,000 are functionally illiterate in one or more areas.

The Division has developed a state strategy for addressing the needs of unprepared/under prepared adults that will effectively coordinate the various professional-technical programs currently serving individuals with workplace literacy needs. This program includes services provided by the Centers for New Directions, Academic Skills Development Centers, and the Department of Correction.

The result of Program 04 is to provide courses and services for adults to overcome barriers that would otherwise prevent them from succeeding in the workforce or in additional technical and academic education. Services provided include remedial and developmental skills education, assessment, counseling, career guidance, pre-professional-technical training, as well as other specialized training necessary to help unprepared/under prepared adults succeed in technical education and the workplace.